

## 2001 American Control Conference

### Program Chair -- Final Report 25 November, 2001

**B. Wayne Bequette**

#### Summary

This was the first ACC to have a completely electronic submission and review process. It was also the first to have a poster session. Although there was some concern that the all-electronic process might reduce submissions, this was not the case. Also, the poster session did not cause more authors to withdraw their papers. There were 129 oral and 30 poster sessions for a total of 159 technical sessions, the same number as the 2000 ACC in Chicago. Fifteen parallel oral sessions were held three times/day, while the five parallel poster sessions were held twice/day.

In addition to the submitted papers there were three plenary talks given by Professor Christos Cassandras of Boston University (*Let's Control Everything*), Dr. Tariq Samad of Honeywell (*Enterprise Optimization in the Process Industries--and Beyond*), and Professor Richard D. Braatz of the University of Illinois at Urbana-Champaign (*Challenges, Theory, and Applications in Process Control*). Also included were three special sessions. Dr. Ruzena Bajcsy and Dr. Sohi Rastegar, both of the National Science Foundation, made presentations on new broad initiatives in the areas of nanotechnology and biotechnology. Dr. Otto Mayr spoke on the history of feedback control. A session titled "From Theory to Wall Street" featured three Stephen Boyd of Barcelona Design, Jack Little of The MathWorks and Thomas Kailath of Numerical Technologies.

The program-at-a-glance is shown in **Attachment 1**, with paper statistics shown in **Attachment 2**.

#### Papers/Sessions Submitted

This was the first ACC to have a completely electronic submission and review process; this web-based process was developed by Jim and Yan Zhu as part of their CEB activities. The original deadline for paper/session proposal submission was 15 Sept 00. This date was extended for a brief period because of server problems. Paper registration was allowed through 18 Sept 00, with final delivery required by 22 Sept 00. Each Society Review Chair and Program Vice-Chair had login access to their papers in .ps or .pdf form.

Regular papers were handled by the individual societies, each with their own reviewers or editorial board. Instructions for each Society Review Chair are given in **Attachment 3**, and the list of Society Review Chairs is provided in **Attachment 4**.

Short papers were handled by Vice Chair for Contributed Papers (Siva Banda); at least 2 reviewers for each paper were from the PC. Instructions for Dr. Banda are given in **Attachment 5**. Invited sessions were handled by the Vice Chair for Invited Sessions (S.N. Balakrishnan); at

least 2 reviewers for each invited session proposal were from the PC. Instructions for Prof. Balakrishnan are given in **Attachment 6**. Tutorial sessions were handled by the Vice Chair for Industrial Applications (LK Mestha). There was no separate submission process for poster papers; the Vice Chair for Poster Papers (Jesse Leitner) focused on the logistics (drayage, etc.) of the poster sessions. All Program Vice Chair reports appear separately.

1015 Regular and Short contributed papers were submitted.

33 Invited Session proposals submitted and 28 were accepted

10 Tutorial Session proposals submitted and 9 were accepted

### **Program Committee Meeting**

The program committee meeting was held at Dallas-Fort Worth (DFW) airport on 6 Jan 01, instead of the traditional December meeting at the CDC (which was in Sydney in 2000). I have been involved in the PC process for a number of years now, and am always impressed by how well the process works. Jim and Yan Zhu do such a good job sorting papers based on subject classification and score that most of the process tends to be done by around noon. Instructions for the Program Committee members are provided in **Attachment 7**, and the list of PC members is in **Attachment 8**.

A score of 3.0 was considered borderline for acceptance; a substantial number of 3.0 papers had to be rejected. Sessions were formed, often by PC members working in groups of 2 or 3, with an area of common interest. Suggested session chairs and co-chairs were also selected (see **Attachments 9 and 10** for chair/co-chair correspondence). The session “cards” were given to Yan, who scanned or entered them into the database. Only a few people were needed to resolve obvious session conflicts on the conference “grid” of 20 columns by 9 rows (placed on the wall of the committee meeting room). Fifteen parallel oral sessions were allocated three time slots per day, while five parallel poster sessions were allocated two time slots per day. There was no difference in the quality of papers appearing in poster vs. oral sessions. There was no clear-cut criteria for the selection of poster vs. oral, but some sessions with “major players” in the control field were selected for poster sessions to make it clear that no quality distinction was being made. Sessions and papers within sessions were rearranged to make certain that all student best paper presentations would be done on Monday, with at least a 20 minute spacing between these papers. Also, the student best paper presentations were all given oral sessions.

Several iterations were needed to reconcile conflicts; this was completed by the end of January, 2001. It should be noted that it is almost impossible to avoid conflicts where an author appears in two parallel sessions, when an author is involved with four or more papers, since there are only nine session slots over three days. One author had 12 papers accepted for presentation at the conference; I encourage future program chairs to watch this more carefully and remove papers with clear overlap.

954 invited and contributed technical papers were accepted for publication. Some were withdrawn, so 939 papers appeared in the Preliminary Program. 905 papers were actually submitted in time to appear on the CD-ROM proceedings. The lead tutorial papers in all 9 Tutorial sessions were published in the proceedings. 24 of the remaining 32 also appeared in the

proceedings. The overall acceptance rate was 73%. The statistics for each society are shown in Attachment 2. I have not reconciled the minor error in the total number of acceptances. Example letters for accepted and non-accepted papers are shown in **Attachment 11** and **Attachment 12**, respectively.

There was a concern that many authors would withdraw poster papers, but this problem was not observed. I believe that I only had 2 authors even send me an email questioning why their paper was placed in a poster session; in one case the poster session topic did not appear to be a good match for the paper.

### **Student Best Paper Award**

There were 26 submissions for the student best paper award (**Attachment 13**); 4 copies of each were sent to me and I selected 3 PC members to review each paper. The papers were evaluated on a score of 1-9 (**Attachment 14**). Six papers received average score greater than 7, so I decided to accept 6 finalists instead of the normal 5 (i.e. at the PC meeting I did not want to make another decision...). *I recommend staying with 5 finalists in the future.* Past program chairs have performed a second evaluation of the top 10 papers at the PC meeting, to reduce the number of finalists to 5; I recommend this approach in the future. Example letters for finalist and non-finalist papers are shown in **Attachments 15 and 16**.

At the Program Committee meeting we arranged for all papers to be presented on Monday (with at least 1 presentation slot (20 minutes) between them). Four copies of each finalist's paper were mailed to me by 15 March 01. I arranged for three subcommittee members to begin the review process. After realizing that I was going to be too busy to see these 6 best paper presentations on Monday, I decided to ask Bob Judd to chair the subcommittee. The subcommittee met on Monday after the last technical session to begin deliberations.

Up to \$600 in expenses were provided for each finalist; also, the registration fee was waived for each finalist. An award certificate for each finalist (**Attachment 17**) and a plaque (framed certificate) for the best paper winner (**Attachment 18**) was presented at the awards luncheon.

*Finalists.* The Student Best Paper Finalists were:

Wu, Wei, Jayasuriya, Suhada (Advisor), "A qft design methodology for neutrally stable plants under input amplitude saturation," Texas A&M University (MA12-2).

Tabuada, Paulo, Pappas, George J. (Advisor) and Lima, Pedro, "Feasible formations of multi-agent systems," University of Pennsylvania (MA02-4).

Young, Brett, Beard, Randal W. (Advisor), and Kelsey, Jed, "A control scheme for improving multi-vehicle formation maneuvers," Brigham Young University (MM02-2)

Ferrari, Silvia and Stengel, Robert F. (Advisor), "Algebraic training of a neural network," Princeton University (MP10-1).

Lau, Mark A. and Pao, Lucy Y. (Advisor) "Comparison of Input Shaping and Time-Optimal Control of Flexible Structures," Univ. of Colorado at Boulder (MP06-3)

Krishnamurthy, Prashanth and Khorrami, Farshad (Advisor), "Adaptive control of stepper motors without current measurements," Polytechnic University (MP08-6).

*Best Paper Winner.* The best paper was awarded to:

Lau, Mark A. and Pao, Lucy Y. (Advisor) "Comparison of Input Shaping and Time-Optimal Control of Flexible Structures," Univ. of Colorado at Boulder (MP06-3)

## **Session Logistics**

At the speakers breakfast the tables were numbered according to session numbers (1-20), with morning, mid-afternoon, and late-afternoon session participants seated at the same table (an additional table was available for AACC Board members and session overflow). Overhead transparencies of the schedule of presentations for each session, and session evaluation forms (**Attachment 19**) were given to the session chair or co-chair. If the chairs did not attend the breakfast, we asked a speaker to give the material to the chairs at the session. I provided explicit instructions to the chairs to keep their sessions on time (20 minutes/paper including questions for the oral sessions), asked them to keep track of session attendance and select the best presentation of their session. In addition, I requested that they nominate outstanding papers for the Hugo Schuck Award and to return the forms to the conference registration desk immediately after their sessions. The names for session best presentation were posted on a bulletin board near the conference registration desk.

## **Comments**

The Control Editorial Board (CEB) service provided by Jim and Yan Zhu is indispensable. Their handling of the database is a time-saver and allows us to focus on the technical program. There were some problems encountered during this (first for an ACC) all-electronic submission process. These problems included: (i) errors or corrupted .ps and .pdf files, (ii) missing review forms, (iii) delays due to disk overflow, and (iv) some problem papers simply had to be scanned in as .pdf files.

## **Recommendations**

### *1. Conflict Resolution*

Although the bulk of the technical program is in place by the end of the PC meeting, there is still the important conflict resolution that must be done within a couple of weeks after the meeting. Yan at CEB provided a list of conflict authors (presenting or chairing in two parallel sessions, for example. My recommendation is to be very careful with the paper/chair switches made during the first round of session conflict resolution. I was not careful and developed a new set of

conflicts with the changes that I made. After that experience, we rapidly converged to the preliminary program.

At the paper submission stage it would be nice to add a field for “intended presenter”; this would be particularly helpful when performing conflict resolution for placement of sessions/papers. I had to make some assumptions about the actual presenter to avoid major conflicts.

## *2. Limit Author Submissions*

One reason conflict resolution is challenging is that too many authors submit 4 or more papers. With only 9 “rows” of sessions it is almost impossible not to have a session conflict for an author of 4 or more papers. There are not enough “degrees of freedom” available. We should consider having some sort of limit on number of paper submissions, or add the paper presenter to the database at the paper submission stage. An author can then be involved in two simultaneous sessions, as long as a co-author (usually a student) is presenting at least one of the papers.

## *3. Session Chairs*

Contact proposed session chairs as soon as possible after the PC meeting. I put this on the “back burner” and had to make a lot of session chair changes as were neared the completion of the preliminary program. Still more changes were made for the final program.

## *4. Best Student Paper*

Choose the subcommittee for the student best paper award early (before the PC meeting). This will be handled by the Vice Chair for Student Affairs in the Future.

Make tough decision to reduce to 5 finalists at the PC. At the 2000 ACC, the top 10 student papers were re-read before/at the PC meeting and reduced to 5 finalists. I like this idea and recommend it for the future.

## *5. Electronic Submission Details*

Since electronic submission was previously optional, there were some “legacy” items on the submission web-page. Authors could “register” a paper before submitting the electronic copy of the paper; this is fine, but the web-page requested that a fax be sent to the appropriate vice-chair, informing them that a paper would be delivered. This was appropriate when hard-copies were going to be mailed, but is no longer appropriate and a waste of time (fortunately, many authors did not bother sending the faxes).

## *6. Vice Chair for Contributed Papers (and Vice Chair for Poster Papers)*

The Vice Chair for Contributed Papers will no longer be responsible for handling the review of short papers, beginning with the 2003 ACC. Since I am the program chair of the 2003 ACC, I will continue with a Vice Chair for Contributed Papers position; one of the responsibilities will be handling the poster session.

## **Attachments**

1. Program at a glance
2. ACC statistics
3. Emails to Society Review Chairs
4. List of Society Review Chairs
5. Email to Program Vice Chair for Contributed Sessions
6. Email to Program Vice Chair for Invited Sessions
7. Emails to Members of the Technical Program Committee
8. Technical Program Committee Members
9. Email to Proposed Session chairs and co-chairs
10. Letter to Session Chairs and Co-Chairs
11. Letter to Corresponding Author of Papers Accepted for ACC
12. Letter to Corresponding Author of Papers not Accepted for ACC
13. List of Nominators and Nominees for Best Student Paper Award
14. Best Student Paper Evaluation Form
15. Letter to Nominators of Best Student Paper Award Finalists
16. Letter to Nominators of Best Student Paper Award Non-Finalists
17. Sample Certificate for Best Student Paper Award Finalists
18. Sample Certificate for Best Student Paper Award Winner
19. Session Summary Form

## 1. Program at-a-Glance

**Monday, 25 June 2001**

Plenary Lecture I: 8:00–9:00am <b>Let's Control Everything!</b> Prof. Christos Cassandras, Boston University Arlington Ballroom Salon IV										
Track	1	2	3	4	5	6	7	8	9	10
Room	Salon I	Salon II	Salon IV	Salon V	Salon VI	Salon A	Salon B	Salon C	Salon D	Salon E
MA  9:30 to 11:30	Vehicle Control I	Control and Coordi- nation of Unmanned Aerial Vehicles	Stochastic Systems I	Robotic Locomo- tion	Control of Induction Motors	Optimiza- tion Techni- ques	Hybrid Systems I	Neural and Bio- Mechani- cal Modeling in Life Science	Command Shaping Technique s for Vibration Control	Discrete Event Systems
Special Session I: 12:30–1:30pm <b>National Research Initiatives</b> Arlington Ballroom Salon IV										
MM  1:45 to 3:45	Vehicle Control II	Control of Multi- vehicle Formations	Stochastic Systems II	Robotics Control I	Control of Power Systems	Optimiza- tion in Control I	Hybrid Systems II	Learning Control: Theory and Applica- tions	Control of Flexible Structures I	Control of Discrete Event Systems
MP  4:00 to 6:00	Powertrain Control and Diagnostics	Aerospace Robust Control Applications	Stochastic Applications	Robust Control and Stability I	Distur- bance Rejection Methods	Application of Optimiza- tion I	Discontin- ous and Relay Control Systems	Adaptive Control and Estimation	Control of Flexible Structures II	Nonlinear Modeling and Identifica- tion

Plenary Lecture I: 8:00–9:00am <b>Let's Control Everything!</b> Prof. Christos Cassandras, Boston University Arlington Ballroom Salon IV										
Track	11	12	13	14	15	16	17	18	19	20
Room	Salon F	Salon G	Salon H	Salon J	Salon K	Arlington Ballroom Reception Area				
MA  9:30 to 11:30	Moni- toring and Control of Polymer Process- ing	Con- strained Control I	Tutorial: Disk Drive Control	Moni- toring and Control of Civil Structures	Fault Detection: Theory and Applications	Guidance and Control	Classical Analysis	Servo Control Systems	Adaptive and Neural Control I	Adaptive Control of Robotic Systems
Special Session I: 12:30–1:30pm <b>National Research Initiatives</b> Arlington Ballroom Salon IV										
MM  1:45 to 3:45	Control and Moni- toring of Batch and Semi- Continu- ous Processes	Reliable Control	Tutorial: Modeling and Control of Economic Systems	Civil Structure Control Applica- tions	Adaptive Methods for Fault Diagnosis and Accomodat ion	Control Education	Control Relevant Identifi- cation	Dynamics and Control of MEMS	Adaptive and Neural Control II	Adaptive Control Applica- tions
MP  4:00 to 6:00	Estimation Applica- tions	Pole Placement Control	Tutorial: Optimiza- tion-Based Hybrid Control Tools	Control of Mechanical Systems I	Fault Detection I					



**Tuesday, 26 June 2001**

Plenary Lecture II: 8:00–9:00am <b>Enterprise Optimization in the Process Industries—and Beyond</b> Dr. Tariq Samad, Honeywell Laboratories Arlington Ballroom Salon IV										
Track	1	2	3	4	5	6	7	8	9	10
Room	Salon I	Salon II	Salon IV	Salon V	Salon VI	Salon A	Salon B	Salon C	Salon D	Salon E
TA  9:30 to 11:30	Control_O riented Modeling and Analysis of Auto- motive Systems	Fault Tolerant Flight Control				Applica- tions of Optimiza- tion II	Switched Linear Systmes	Neural- Network- Based Estimation and Control	Control of Distri- buted Parameter Systems I	Nonlinear Observers
Awards Banquet: 11:45am–1:30pm Arlington Ballroom Salons IV–IV										
TM  1:45 to 3:45	Vehicle Scheduling and Control	Aerospace Control				Optimiza- tion in Control II	Novel Formu- lations of Model Predictive Control	Adaptive Nonlinear Control	Control of Distri- buted Parameter Systems II	Observers
TP  4:00 to 6:00	Powertrain Control	Neural Networks for Intelligent Flight Control	Descriptor Systems	Robust Control and Stability II	Application of Control Theory to Computer Systems	Problem- Specific Algorithms for Large- scale LMI Problems	New Predictive Control Techniques	Output Feedback Adaptive Control	Decentra- lized Control	Linear Control Topics

<p>Plenary Lecture II: 8:00–9:00am</p> <p><b>Enterprise Optimization in the Process Industries—and Beyond</b></p> <p>Dr. Tariq Samad, Honeywell Laboratories</p> <p>Arlington Ballroom Salon IV</p>										
Track	11	12	13	14	15	16	17	18	19	20
Room	Salon F	Salon G	Salon H	Salon J	Salon K	Arlington Ballroom Reception Area				
TA	Chemical Process Control Applications	Discrete Time Systems I	<b>Tutorial:</b> Failure Diagnosis of Dynamic Systems Using Discrete-Event Models	Auto-nomous Vehicles and Robots	Fault Detection II	Permanant Magnet Motors	PID Control	Control of Paper Manufacturing Processes	Precision Positioning Systems	Nonlinear Systems I
9:30 to 11:30										
<p>Awards Banquet: 11:45am–1:30pm</p> <p>Arlington Ballroom Salons IV–IV</p>										
TM	Industrial Control Applications	Discrete Time Systems II	<b>Tutorial:</b> Fault Tolerant Control	Automotive Suspension Systems	Fault Detection and Tolerance	H-infinity Control	Control Theory Topics I	Control of Disk Drives	Nonlinear Feedback Control	Knowledge Based Control
1:45 to 3:45										
TP	Nonlinear Control I	Discrete Time Systems III	<b>Tutorial:</b> Constraint-Based Scheduling	Control of Mechanical Systems II	Closed-Loop Identification					
4:00 to 6:00										
<p>Special Session II: 6:15–7:15</p> <p><b>The History of Feedback Control</b></p> <p>Arlington Ballroom, Salon IV</p>										

**Wednesday, 27 June 2001**

<p align="center">Plenary Lecture III: 8:00–9:00am</p> <p align="center"><b>Challenges, Theory, and Applications in Process Control</b></p> <p align="center">Prof. Richard D. Braatz, University of Illinois</p>										
Track	1	2	3	4	5	6	7	8	9	10
Room	Salon I	Salon II	Salon IV	Salon V	Salon VI	Salon A	Salon B	Salon C	Salon D	Salon E
<p align="center">WA</p> <p align="center">9:30 to 11:30</p>	Estimation in Vehicle Systems	Advances in Missile Guidance and Control Design	Time-Delay Systems I	Robustness Topics	Software Technology for the Next Generation of Control Systems	Techniques of System Analysis	Multi-Model Techniques In Nonlinear Process Control	Neural Network-Based Adaptive Control	Nonlinear Systems II	Robust Linear Estimation I
<p align="center">Special Session III: 12:30–1:30pm</p> <p align="center"><b>From Theory to Wall Street</b></p> <p align="center">Arlington Ballroom Salon IV</p>										
<p align="center">WM</p> <p align="center">1:45 to 3:45</p>	Fluid Power Control Systems	Control of Space Systems	Time-Delay Systems II	Robust Control	Control Theory Topics II	H-infinity Control II	Controller Synthesis	Adaptive Control I	Stability Analysis I	Robust Linear Estimation II
<p align="center">WP</p> <p align="center">4:00 to 6:00</p>	Modeling and Estimation of Engines and Motors	Teleoperation and Vision	Time-Delay Systems III	Stabilization and Stability Analysis	Large Real Time Decision Systems	Model Reduction	Fuzzy Control: Theory	Adaptive Control II	Stability Analysis II	Nonlinear Identification
<p align="center">Closing Reception: 7:00–9:00pm</p> <p align="center">Arlington Salons IV–VI</p>										

Plenary Lecture III: 8:00–9:00am <b>Challenges, Theory, and Applications in Process Control</b> Prof. Richard D. Braatz, University of Illinois										
Track	11	12	13	14	15	16	17	18	19	20
Room	Salon F	Salon G	Salon H	Salon J	Salon K	Arlington Ballroom Reception Area				
WA  9:30 to 11:30	Nonlinear Control II	Linear Identification	<b>Tutorial:</b> Life-Extending Control: An Evolving Field of Interdisciplinary Research	Variable Structure and Relay Control	Particle Filtering I: Tracking and Estimation	Communication Networks	Bioengineering	Control of Disk Drives II	Neural-Fuzzy Adaptive Control Systems	Parameter Varying Systems
Special Session III: 12:30–1:30pm <b>From Theory to Wall Street</b> Arlington Ballroom Salon IV										
WM  1:45 to 3:45	Nonlinear Control III	Active Sensing and Control with Data Uncertainties	<b>Tutorial:</b> Process Control Loop Benchmarking and Revenue Optimization	Sliding Mode Control and Estimation	Particle Filtering II: Various Applications	Sensors	Fault Detection and Diagnosis in Industrial Processes	Hydraulic Systems	Robotics Control II	Discrete Delay Systems
WP  4:00 to 6:00	Constrained Control II	MFG Applications Using DES	<b>Tutorial:</b> Communication and Control of Hybrid Systems	Variable Structure Control	Set Membership Estimation and Model Validation					
Closing Reception: 7:00–9:00pm Arlington Salons IV–VI										

## 2. ACC Statistics

Society	Papers Reviewed	Papers Accepted	Acceptance Rate
AIAA	54	41	76%
AIChE	56	42	75%
AISE	4	1	25%
ASCE	1	1	100%
ASME	113	81	72%
IEEE	669	461	69%
ISA	17	13	76%
SCS	14	9	64%
Short	104	78	75%
Invited	200	160	80%
Industry-Tutorial	44	41	93%
<b>Total</b>	<b>1276</b>	<b>928</b>	<b>73%</b>

### 3. Emails to Society Review Chairs

#### 3.1 Society Review Chair Instructions (preview - 24 Aug 00; more details to follow by 1 Sept 00)

I am writing with reference to the 2001 American Control Conference (2001 ACC) to be held in Arlington, VA at the Crystal Gateway Marriott Hotel from June 25-27, 2001 (the conference web page is <http://acc2001.cse.ufl.edu/>). As a Society Review Chair (SRC), you are responsible for handling the review of contributed *regular* papers submitted through your society. Your cooperation is essential for us to put together a quality technical program and I ask that you follow carefully the instructions given below.

Dr. Jim Zhu is the IEEE Society Review Chair for the 2001 ACC, and chairs the IEEE Control System Society's Conference Editorial Board (CEB). It is in his capacity as CEB chair that Jim is set up to log data for all papers, submitted for consideration for presentation at 2001 ACC, in a central database which will then be used for assembling the technical program. Please work closely with Jim's office throughout the review process so that costly errors may be eliminated. Your responsibilities in this review process include:

1. ***Electronic Submissions:*** It is our policy that all papers must be submitted electronically to ACC 2001 on the CEB web site. Acceptable file formats are: Postscript (PS) and PDF files, and Zip compressed PS and PDF files. Meanwhile, you are expected to handle the review electronically. The URL used by authors for the web submission process is:

<http://nt1.rsip.lsu.edu/cssceb/>

2. In order for you to verify that you are setup properly to handle e-submissions, Jim will setup a hidden web site for you to try out downloading the files with your web browser and printing (in case it is needed) of electronic manuscripts. The URL for contributed papers submitted to your society *will be provided by 1 Sept 00*. This URL will be used for the actual submissions as well. The size of the test files will be typical of most submissions. There will be a .csv file containing the data on the authors and keywords (and optionally the abstract) of each paper submitted to a SRC, which could be used by the SRC for correspondence with the author and for the selection of reviewers. This would save the SRC from manually logging in the data from submissions.

Please test your system soon after I send you the updated instructions (by around 1 Sept 00) and if you have any problem with handling e-submissions please let Jim or me know as soon as possible.

If you receive any hard copy submission by mail, please make an effort to introduce the authors to the e-submission procedure at the CEB web site and encourage them to try out e-submission first. If they do have technical difficulty in using e-submission, please let them contact CEB directly by email. You should not accept any hard copy mail submissions.

At the end of the submission, the CEB office will send to the authors an acknowledgment letter on your behalf for receipt of their manuscripts and verification of the pertinent data on their submissions.

3. ***Review of Manuscripts:*** The deadline for submission of manuscripts is September 15, 2000. We will allow a grace period of one week until September 22 for deliveries only. While you may download Regular papers submitted to your society from your hidden website at CEB periodically prior to the submission deadline, Jim Zhu will make all e-manuscripts submitted to your society available in your hidden website shortly after September 22. Although you should begin to select three qualified reviewers for each paper as soon as you download it, but please do not send out any paper for review prior to the actual close date of September 22. On the other hand, all papers should be sent out for review within two weeks thereafter.
4. ***Review Forms:*** For uniformity, it is imperative that all Society Review Chairs use the special form for ACC 2001 which will be inserted into the e-manuscripts by CEB. Please note that the return address on the review forms will be yours unless you notify Jim Zhu that someone else should receive the review forms.
5. ***Summary Evaluation Form:*** After the review is complete, and **no later than November 22, 2000**, you or your associate editor must prepare a summary evaluation on each paper submitted to your society. Jim Zhu will set up an online Summary Review Form for you to submit your summary evaluations using your web browser. He will send you your log on ID and Password in the due time. Please note that the November 22 deadline is crucial since the CEB office must log all data for papers evaluated through your society prior to our Technical Program Committee Meeting in Dallas, TX on January 6-7, 2001. (Please note that, although it sounds like there is a long time between the deadline for your report and the PC Meeting, there are several holidays during this period that are celebrated worldwide, and that the CDC conference will be held during this period in Sidney, Australia. In addition, most universities will be closed for the Winter Break.)
6. ***Technical Program Committee Meeting:*** You should plan on attending the Technical Program Committee Meeting on January 6-7, 2001 in Dallas, TX to finalize the technical program. Breakfast and lunch will be provided. Your input will be critical for us to put together a program which is balanced and of the highest quality.
7. ***Additional Responsibilities:*** As a SRC you would know the experts in your respective society and I ask that you solicit cohesive invited session proposals from you members. Please contact Professor S. N. Balakrishnan (*vice-chair invited sessions*, bala@umr.edu) for information on submitting an invited session proposal. Note that all invited session proposals will be critically peer reviewed and please let the session organizers know that acceptance is not guaranteed.

If you have any questions about your responsibilities, your best sources of information are: (i) your counterpart from the 2000 ACC (please beware of the significant changes in the e-submission and e-review procedures since then) ; (ii) Dr. Jim Zhu and the CEB Website; and (iii)

myself. Please do not hesitate to contact me if you need any help. If any of your contact information has changed, please let Oscar D. Crisalle (Publicity Chair, [crisalle@che.ufl.edu](mailto:crisalle@che.ufl.edu)) know so that our web page may be updated to reflect the most accurate information. Please also change your online database record at the CEB Website using your web browser as that record will be used to print the return address on the review forms and the acknowledgment letters for your society. I look forward to working with you in creating an outstanding technical program for the 2001 ACC.

Many Thanks,

B. Wayne Bequette  
Program Chair, 2001 ACC  
[bequette@rpi.edu](mailto:bequette@rpi.edu)  
Voice: (518) 276-6683  
Fax: (518) 276-4030

### **3.2 Society Review Chair Instructions (9 Sept 00) - Updated Instructions and Society Review URL**

Dear Banivar - Let me apologize for having to send you bits and pieces of information on the society review process at different times, rather than all at once. There are still some “growing pains” as we move to an entirely electronic process.

This note is an update to my SRC instructions of 24 Aug 00. Here I provide the ftp site for testing (see #2) your ability to handle e-submissions, as well as the hidden ftp site (see #3) to be used by your particular society. My experience is that Netscape handles the ftp well, but there can be problems with MS Internet Explorer - you may also wish to use your own ftp tools. In this case you will need to first ftp to:

nt1.rsip.lsu.edu

as anonymous user, then change directory to your particular site.

As a review, your responsibilities in this review process include:

1. *Electronic Submissions:* It is our policy that all papers must be submitted electronically to ACC 2001 on the CEB web site. Acceptable file formats are: Postscript (PS) and PDF files, and Zip compressed PS and PDF files. Meanwhile, you are expected to handle the review electronically. The URL used by authors for the web submission process is (CEB web site):

<http://nt1.rsip.lsu.edu/cssceb/>

2. *Test ftp site.* In order for you to verify that you are setup properly to handle e-submissions, Jim has setup a web site for all society review chairs to try out downloading the files with your web browser and printing (in case it is needed) of electronic manuscripts:



<ftp://nt1.rsip.lsu.edu/srcs/>

The size of the test files is typical of most submissions. There is a .csv file containing the data on the authors and keywords (and optionally the abstract) of each paper submitted to a SRC, which could be used by the SRC for correspondence with the author and for the selection of reviewers. This saves the SRC from manually logging in the data from submissions.

I hope that you have had the chance to test your system. If you have any problem with handling e-submissions please let Jim or me know as soon as possible.

3. *AIAA hidden web site.* The URL for contributed papers submitted to the AIAA is.:

<ftp://nt1.rsip.lsu.edu/srcs/aiaa-6y8>

If you receive any hard copy submission by mail, please make an effort to introduce the authors to the e-submission procedure at the CEB web site and encourage them to try out e-submission first. If they do have technical difficulty in using e-submission, please let them contact CEB directly by email. You should not accept any hard copy mail submissions.

At the end of the submission, the CEB office will send to the authors an acknowledgment letter on your behalf for receipt of their manuscripts and verification of the pertinent data on their submissions.

4. *Review of Manuscripts:* The deadline for submission of manuscripts is September 15, 2000. We will allow a grace period of one week until September 22 for deliveries only (this means that the paper ID must still be obtained by 15 Sept 00). While you may download Regular papers submitted to your society from your hidden website periodically prior to the submission deadline, Jim Zhu will make all e-manuscripts submitted to your society available in your hidden website shortly after September 22. Please select three qualified reviewers for each paper as soon as you download it. All papers should be sent out for review by 6 Oct 00.

5. **Review Forms:** For uniformity, it is imperative that all Society Review Chairs use the special form for ACC 2001 which will be inserted into the e-manuscripts by CEB. Please note that the return address on the review forms will be yours unless you notify Jim Zhu that someone else should receive the review forms.

6. *Summary Evaluation Form:* After the review is complete, and **no later than November 22, 2000**, you or your associate editor must prepare a summary evaluation on each paper submitted to your society. Jim Zhu will set up an online Summary Review Form for you to submit your summary evaluations using your web browser. He will send you your log on ID and Password in the due time. Please note that the November 22 deadline is crucial since the CEB office must log all data for papers evaluated through your society prior to our Technical Program Committee Meeting in Dallas, TX on January 6-7, 2001. (Please note that, although it sounds like there is a long time between the deadline for your report and the PC Meeting, there are several holidays during this period that are celebrated worldwide, and that the CDC conference will be held

during this period in Sidney, Australia. In addition, most universities will be closed for the Winter Break.)

*7. Technical Program Committee Meeting:* You should plan on attending the Technical Program Committee Meeting on January 6-7, 2001 in Dallas, TX to finalize the technical program. Breakfast and lunch will be provided. Your input will be critical for us to put together a program which is balanced and of the highest quality.

*8. Additional Responsibilities:* As a SRC you would know the experts in your respective society and I ask that you solicit cohesive invited session proposals from you members. Please contact Professor S. N. Balakrishnan (*vice-chair invited sessions*, [bala@umr.edu](mailto:bala@umr.edu)) for information on submitting an invited session proposal. Note that all invited session proposals will be critically peer reviewed and please let the session organizers know that acceptance is not guaranteed.

If you have any questions about your responsibilities, your best sources of information are: (i) your counterpart from the 2000 ACC (please beware of the significant changes in the e-submission and e-review procedures since then) ; (ii) Dr. Jim Zhu and the CEB Website; and (iii) myself. Please do not hesitate to contact me if you need any help. If any of your contact information has changed, please let Oscar D. Crisalle (Publicity Chair, [crisalle@che.ufl.edu](mailto:crisalle@che.ufl.edu)) know so that our web page may be updated to reflect the most accurate information. Please also change your online database record at the CEB Website using your web browser as that record will be used to print the return address on the review forms and the acknowledgment letters for your society. I look forward to working with you in creating an outstanding technical program for the 2001 ACC.

Many Thanks,

B. Wayne Bequette  
Program Chair, 2001 ACC  
[bequette@rpi.edu](mailto:bequette@rpi.edu)  
Voice: (518) 276-6683  
Fax: (518) 276-4030

#### 4. List of Society Review Chairs

##### AIAA

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NASA Ames Research Center  
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Fax: 415-604-3323  
[bsridhar@mail.arc.nasa.gov](mailto:bsridhar@mail.arc.nasa.gov)

##### AIChE

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Fax: (610)481-2177  
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##### IEEE

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##### SCS

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[zohdyma@vela.acs.oakland.edu](mailto:zohdyma@vela.acs.oakland.edu)

## 5. Email to Vice Chair of Contributed (Short) Papers

Vice Chair of Contributed (Short) Papers Instructions (13 Sept 00)

Dear Siva:

I am writing in reference to the 2001 American Control Conference (2001 ACC) to be held in Arlington, VA at the Crystal Gateway Marriott Hotel from June 25-27, 2001 (the conference web page is <http://www.acc01.a2c2.org>). As the Vice Chair for Contributed papers, you are responsible for handling the review of all contributed (short) papers. Your cooperation is essential for us to put together a quality technical program and I ask that you follow carefully the instructions given below.

Dr. Jim Zhu is the IEEE Society Review Chair for the 2001 ACC, and chairs the IEEE Control System Society's Conference Editorial Board (CEB). It is in his capacity as CEB chair that Jim is set up to log data for all papers, submitted for consideration for presentation at 2001 ACC, in a central database which will then be used for assembling the technical program. Please work closely with Jim's office throughout the review process so that costly errors may be eliminated. Your responsibilities in this review process include:

1. *Electronic Submissions:* It is our policy that all papers must be submitted electronically to ACC 2001 on the CEB web site. Acceptable file formats are: Postscript (PS) and PDF files, and Zip compressed PS and PDF files. Meanwhile, you are expected to handle the review electronically. The URL used by authors for the web submission process is (CEB web site):

<http://nt1.rsip.lsu.edu/cssceb/>

2. *Test ftp site.* In order for you to verify that you are setup properly to handle e-submissions, Jim has setup a web site for all society review chairs to try out downloading the files with your web browser and printing (in case it is needed) of electronic manuscripts:

<ftp://nt1.rsip.lsu.edu/srcs/>

The size of the test files is typical of most submissions. There is a .csv file containing the data on the authors and keywords of each paper, which could be used by you for correspondence with the authors and for the selection of reviewers. This saves you from manually logging in the data from submissions.

My experience is that Netscape handles the ftp well, but there can be problems with MS Internet Explorer - you may also wish to use your own ftp tools. In this case you will need to first ftp to:

[nt1.rsip.lsu.edu](ftp://nt1.rsip.lsu.edu)

as anonymous user, then change directory to your particular site.

I hope that you will soon test this system. If you have any problem with handling e-submissions please let Jim or me know as soon as possible.

3. *Invited Session hidden web site.* The URL for invited session proposals and paper abstracts is:

<ftp://nt1.rsip.lsu.edu/srcs/shrtpr>

If you receive any hard copy submission by mail, please make an effort to introduce the organizers to the e-submission procedure at the CEB web site and encourage them to try out e-submission first. If they do have technical difficulty in using e-submission, please let them contact CEB directly by email. You should not accept any hard copy mail submissions.

At the end of the submission, the CEB office will send to the authors an acknowledgment letter on your behalf for receipt of their papers and verification of the pertinent data on their submissions.

4. *Review of Contributed Papers:* The deadline for submission of papers is September 15, 2000. We will allow a grace period of one week until September 22 for deliveries only (this means that the paper IDs must still be obtained by 15 Sept 00). While you may download papers from your hidden website periodically prior to the submission deadline, Jim Zhu will make all e-proposals submitted to you available in your hidden website shortly after September 22. Please select three qualified reviewers for each paper as soon as you download it. All papers should be sent out for review by 6 Oct 00. It is expected that two reviewers will be from the technical program committee. I will send you a detailed list of committee members soon. I will also need to coordinate committee member selection in this process with the Vice Chair for Invited Sessions (Bala), so that no individual PC member is overloaded.

5. *Review Forms:* For uniformity, it is imperative that you use the special form for ACC 2001 which will be inserted into the e-manuscripts by CEB. Please note that the return address on the review forms will be yours.

6. *Summary Evaluation Form:* After the review is complete, and **no later than November 22, 2000**, you must prepare a summary evaluation on each paper. Jim Zhu will set up an online Summary Review Form for you to submit your summary evaluations using your web browser. He will send you your log on ID and Password in the due time. Please note that the November 22 deadline is crucial since the CEB office must log all data for sessions and papers prior to our Technical Program Committee Meeting in Dallas, TX on January 6-7, 2001. (Please note that, although it sounds like there is a long time between the deadline for your report and the PC Meeting, there are several holidays during this period that are celebrated worldwide, and that the CDC conference will be held during this period in Sydney, Australia. In addition, most universities will be closed for the Winter Break.)

7. *Technical Program Committee Meeting:* You should plan on attending the Technical Program Committee Meeting on January 6-7, 2001 in Dallas, TX to finalize the technical program. Breakfast and lunch will be provided. Your input will be critical for us to put together a program which is balanced and of the highest quality.

If you have any questions about your responsibilities, your best sources of information are: (i) your counterpart from the 2000 ACC (please beware of the significant changes in the e-submission and e-review procedures since then) ; (ii) Dr. Jim Zhu and the CEB Website; and (iii) myself. Please do not hesitate to contact me if you need any help. If any of your contact information has changed, please let Oscar D. Crisalle (Publicity Chair, [crisalle@che.ufl.edu](mailto:crisalle@che.ufl.edu)) know so that our web page may be updated to reflect the most accurate information. Please also change your online database record at the CEB Website using your web browser as that record will be used to print the return address on the review forms and the acknowledgment letters for your society. I look forward to working with you in creating an outstanding technical program for the 2001 ACC.

Many Thanks,

B. Wayne Bequette  
Program Chair, 2001 ACC  
[bequette@rpi.edu](mailto:bequette@rpi.edu)  
Voice: (518) 276-6683  
Fax: (518) 276-4030

## 6. Email to Vice Chair of Contributed (Short) Papers

Vice Chair of Invited Session Instructions (13 Sept 00)

Dear Bala:

I am writing in reference to the 2001 American Control Conference (2001 ACC) to be held in Arlington, VA at the Crystal Gateway Marriott Hotel from June 25-27, 2001 (the conference web page is <http://www.acc01.a2c2.org>). As the Vice Chair for Invited Sessions, you are responsible for handling the review of all invited session proposals. Your cooperation is essential for us to put together a quality technical program and I ask that you follow carefully the instructions given below.

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1. *Electronic Submissions:* It is our policy that all papers must be submitted electronically to ACC 2001 on the CEB web site. Acceptable file formats are: Postscript (PS) and PDF files, and Zip compressed PS and PDF files. Meanwhile, you are expected to handle the review electronically. The URL used by authors for the web submission process is (CEB web site):

<http://nt1.rsip.lsu.edu/cssceb/>

2. *Test ftp site.* In order for you to verify that you are setup properly to handle e-submissions, Jim has setup a web site for all society review chairs to try out downloading the files with your web browser and printing (in case it is needed) of electronic manuscripts:

<ftp://nt1.rsip.lsu.edu/srcs/>

The size of the test files is typical of most submissions. There is a .csv file containing the data on the organizers of each invited session and the authors and keywords of each paper, which could be used by you for correspondence with the organizers and for the selection of reviewers. This saves you from manually logging in the data from submissions.

My experience is that Netscape handles the ftp well, but there can be problems with MS Internet Explorer - you may also wish to use your own ftp tools. In this case you will need to first ftp to:

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as anonymous user, then change directory to your particular site.

I hope that you will soon test this system. If you have any problem with handling e-submissions please let Jim or me know as soon as possible.

3. *Invited Session hidden web site.* The URL for invited session proposals and paper abstracts is:

<ftp://ntl.rsip.lsu.edu/srcs/inv-acc01>

If you receive any hard copy submission by mail, please make an effort to introduce the organizers to the e-submission procedure at the CEB web site and encourage them to try out e-submission first. If they do have technical difficulty in using e-submission, please let them contact CEB directly by email. You should not accept any hard copy mail submissions.

At the end of the submission, the CEB office will send to the organizers an acknowledgment letter on your behalf for receipt of their proposals and verification of the pertinent data on their submissions.

4. *Review of Session Proposals:* The deadline for submission of proposals is September 15, 2000. We will allow a grace period of one week until September 22 for deliveries only (this means that the session and paper IDs must still be obtained by 15 Sept 00). While you may download proposals from your hidden website periodically prior to the submission deadline, Jim Zhu will make all e-proposals submitted to you available in your hidden website shortly after September 22. Please select three qualified reviewers for each proposal as soon as you download it. All proposals should be sent out for review by 6 Oct 00. It is expected that two reviewers will be from the technical program committee. I will send you a detailed list of committee members soon. I will also need to coordinate committee member selection in this process with the Vice Chair for Contributed (Short) Papers (Siva Banda), so that no individual PC member is overloaded.

5. *Review Forms:* For uniformity, it is imperative that you use the special form for ACC 2001 which will be inserted into the e-proposals by CEB. Please note that the return address on the review forms will be yours.

6. *Summary Evaluation Form:* After the review is complete, and **no later than November 22, 2000**, you must prepare a summary evaluation on proposal. Jim Zhu will set up an online Summary Review Form for you to submit your summary evaluations using your web browser. He will send you your log on ID and Password in the due time. Please note that the November 22 deadline is crucial since the CEB office must log all data for sessions and papers prior to our Technical Program Committee Meeting in Dallas, TX on January 6-7, 2001. (Please note that, although it sounds like there is a long time between the deadline for your report and the PC Meeting, there are several holidays during this period that are celebrated worldwide, and that the CDC conference will be held during this period in Sydney, Australia. In addition, most universities will be closed for the Winter Break.)

7. *Technical Program Committee Meeting:* You should plan on attending the Technical Program Committee Meeting on January 6-7, 2001 in Dallas, TX to finalize the technical program.



Breakfast and lunch will be provided. Your input will be critical for us to put together a program which is balanced and of the highest quality.

If you have any questions about your responsibilities, your best sources of information are: (i) your counterpart from the 2000 ACC (please beware of the significant changes in the e-submission and e-review procedures since then) ; (ii) Dr. Jim Zhu and the CEB Website; and (iii) myself. Please do not hesitate to contact me if you need any help. If any of your contact information has changed, please let Oscar D. Crisalle (Publicity Chair, [crisalle@che.ufl.edu](mailto:crisalle@che.ufl.edu)) know so that our web page may be updated to reflect the most accurate information. Please also change your online database record at the CEB Website using your web browser as that record will be used to print the return address on the review forms and the acknowledgment letters for your society. I look forward to working with you in creating an outstanding technical program for the 2001 ACC.

Many Thanks,

B. Wayne Bequette  
Program Chair, 2001 ACC  
[bequette@rpi.edu](mailto:bequette@rpi.edu)  
Voice: (518) 276-6683  
Fax: (518) 276-4030

## 7. Emails to PC Members

### 7.1 Invitation: 26 Feb 2000

Bruce Krogh (2001 ACC General Chair) and I are writing to invite you to serve on the program committee for the 2001 American Control Conference, to be held on 25-27 June 01 in Washington, DC. Your main duties would be to serve as a reviewer for: (a) short contributed papers, (b) invited session proposals, and (c) tutorial session proposals. The bulk of your work would occur this fall (between mid-September and mid-November). Ordinarily the program committee would meet at the CDC to finalize the technical program. Since the 2000 CDC is being held in Sydney, Australia, we are holding the program committee meeting in Las Vegas [Note: This was changed to the Dallas-Fort Worth Airport Hyatt] on 6 Jan 01 (Saturday afternoon). The plan is for committee members to fly into Las Vegas on Saturday morning, and leave on Sunday. The ACC operating budget will cover your flight and expenses for one night (details to be provided later).

The success of the American Control Conference depends on the involvement of active members of the control community. Please let me know if you will be able to serve on the program committee. Also, please send me your complete contact information (name, mailing address, telephone and fax numbers), as well as your areas of technical interest (*I have supplied a list below - feel free to suggest more relevant topics*).

Many thanks,

B. Wayne Bequette, 2001 ACC Program Chair

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Technical Areas:

- Adaptive Control
- Aerospace Systems and Control
- Automotive Systems and Control
- Autonomous Systems
- Biomedical Systems
- Computer-Aided Design
- Control Education
- Decentralized Control
- Delay Systems
- Discrete Event Systems
- Discrete Time Systems
- Distributed Parameter Systems
- Estimation
- Fault Detection
- Flexible Structures
- Fuzzy Control
- Hybrid Systems

Identification  
Intelligent Control  
IVHS  
Linear Matrix Inequality  
Linear Systems  
Manufacturing Systems  
Materials Processing  
Model REduction  
Neural Networks  
Nonholonomic Systems  
Nonlinear Systems and Control  
Numerical Methods  
Optimal Control  
Power Systems  
Process Control  
Quantitative Feedback Control  
Robotics  
Robust Control  
Spacecraft Control  
Stability/Robust Stability  
Stochastic Systems  
Uncertain Systems  
Variable Stucture Systems

## **7.2 PC Meeting Scheduling: 14 June 2000**

Dear 2001 ACC program committee member -

Please recall that the 2001 ACC PC meeting will not be held at the CDC this year, since it is in Sydney. All of the ACC-related meetings that normally occur at the CDC will be held at the DFW Hyatt on 6-7 Jan 01. Our PC meeting will be on Saturday, 6 Jan 01 from 9:00 am to 5:00 pm. Abe Haddad is in the process of making hotel and meeting room reservations for our PC meeting.

I need to know how many of you will be participating in this meeting. Most travel and room expenses will be covered by the ACC budget -- but probably with some fixed amount to minimize expense handling -- I'll get you the details before you actually need to make plane reservations -- to minimize expenses it is likely that you will need to stay over the Saturday night.

Please let me know if you are planning on participating, and if you will need a hotel room for both Friday and Saturday night.

Many thanks,

Wayne, 2001 ACC program chair

### 7.3 PC Meeting Details: 4 January 01

Hello folks -

For those of you participating in a program committee meeting for the first time, I wanted to send you an email about what to expect. We will be meeting at 8:00 am on Saturday (check the hotel desk for the room location), beginning with a breakfast and overview of the activities.

All contributed papers (1015) have been evaluated by at least 3 reviewers, with a final score assigned by a society review chair or the vice chair for contributed (short) papers. Most (but not all) of the papers receiving scores 3 and greater will be accepted for presentation.

Each paper has a "token" (scorecard) that has a different color, based on the score received, and details about the paper title, authors, and subject keywords. Our goal is to form sessions with a coherent topic or theme. Most of the tokens will be initially sorted by the principle keyword, so that if you have an interest in "Linear Systems" for example, you may take a group of 20 or so papers, and begin to form sessions of six papers. You will also need to select session chairs and co-chairs, from a list of available chairs, or from session participants. You will then need to recommend the size of room for the session. You will then give the session of 6 papers to Yan, who will electronically record the information. The session will then be placed in the conference "grid" of roughly 14 parallel oral and 3 parallel poster sessions.

The accepted invited (roughly 27/33) and tutorial sessions (roughly 8/10) will also need to be placed in this "grid". A few of the invited sessions will have 1 or 2 papers rejected, so contributed papers can be placed in those sessions.

You can see that there will be a lot of interaction with other PC members as you try to form coherent sessions. You will probably work with 1 or more other members interested in the same broad areas as you in forming these sessions. You will find that the keywords often do not do the paper justice and will fit better in other session areas being developed -- so just informally announce to the PC that you have some papers that may fit better elsewhere, or that you need 1 or 2 papers to complete one of your sessions.

I include a list of the PC members below. You will get to know them well over 5-6 hours that it takes to put together a session.

Please note that we have had some problems with reviews on a few papers, so I may ask some of you to help me with last minute reviews.

After the "grid" has been formed, much of the work will have been done, and you may have some time to relax before dinner (7:00 pm). A number of us will need to spend more time checking for conflicts, proper room sizes, etc. and participate in the 01 and 02 OpComm meetings.

I'm looking forward to our meeting in Dallas.

Take care,

Wayne

-----

Program Committee Meeting in Dallas on 6-7 Jan 01 – Planned Attendees:

Program Committee

Jordan Berg (Texas Tech)  
Michael Branicky (Case Western)  
Jim Buffington (Lockheed)  
Yossi Chait (U. Mass.)  
Ali Feliachi (West Virginia)  
Robert Judd (Ohio University)  
Jay H. Lee (Purdue University)  
Naomi Leonard (Princeton)  
Robert Lipset (Ohio University)  
Eduardo Misawa (Oklahoma State)  
Ken Muske (Villanova University)  
Lucy Pao (Colorado)  
Huei Peng (Michigan)  
Jeff Pieper (Alberta)  
Suhendu Rai (Xerox)  
Molly Shor (Oregon State)  
Masoud Soroush (Drexel University)  
Andy Sparks (Air Force Research Lab)  
Jing Sun (Ford)  
Tyrone Vincent (Colorado School of Mines)

Society Review Chairs

Jorge Mandler (Air Products) - AIChE  
Shirley J. Dyke (Washington U.) - ASCE  
J. Jim Zhu (Ohio) - IEEE  
Gary G. Yen (Oklahoma State) - ISA  
Mohammed A. Zohdy (Oakland) - SCS

Operating Committee

Siva Banda (AFRL) – VC: Contributed (Short)  
S.N. Balakrishnan (UM-Rolla) – VC: Invited  
B. Wayne Bequette (RPI) – Program Chair  
Larry Holloway (Kentucky) – Registration  
Bruce Krogh (CMU) – General Chair  
Jesse Leitner (NASA-Goddard) – VC: Posters  
L.K. Mestha (Xerox) – VC: Industry and Applications

Michael Maston (TI) – Workshop  
Asok Ray (Penn State) – Finance  
Dawn Tilbury (Michigan) - Publications  
Greg Walsh (Maryland) – Local Arrangements

Keyword listing - contributed (regular and short) papers:

15	Unclassified
78	Adaptive
225	Control Applications
9	Education
63	Discrete/Hybrid
17	Distributed Parameter Systems
10	Emerging Control Technology
34	Emerging Control Theory
88	ID/Estimation
48	Intelligent Systems
137	Linear Systems
26	Modeling
138	Nonlinear Systems
55	Optimization
27	Stochastic
47	Other

## 8. Program Committee Members

A. Annaswamy (MIT) [aanna@mit.edu](mailto:aanna@mit.edu)  
Jordan Berg (Texas Tech) [jordan.berg@ttu.edu](mailto:jordan.berg@ttu.edu)  
Michael Branicky (Case Western) [msbl1@po.cwru.edu](mailto:msbl1@po.cwru.edu)  
Jim Buffington (Lockheed) [james.m.buffington@lmco.com](mailto:james.m.buffington@lmco.com)  
Francesco Bullo (Illinois) [bullo@uiuc.edu](mailto:bullo@uiuc.edu)  
Linda Bushnell (U. Wash.) [bushnell@ee.washington.edu](mailto:bushnell@ee.washington.edu)  
Yossi Chait (U. Mass.) [chait@snail.ecs.umass.edu](mailto:chait@snail.ecs.umass.edu)  
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Atul Kelkar (Kansas State) [akelkar@ksu.edu](mailto:akelkar@ksu.edu)  
Jay H. Lee (Georgia Tech) [JAY.LEE@CHE.GATECH.EDU](mailto:JAY.LEE@CHE.GATECH.EDU)  
Naomi Leonard (Princeton) [naomi@balanchine.princeton.edu](mailto:naomi@balanchine.princeton.edu)  
Robert Lipset (Ohio University) [lipset@bobcat.ent.ohiou.edu](mailto:lipset@bobcat.ent.ohiou.edu)  
Eduardo Misawa (Oklahoma State) [misawa@ceat.okstate.edu](mailto:misawa@ceat.okstate.edu)  
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Huei Peng (Michigan) [hpeng@umich.edu](mailto:hpeng@umich.edu)  
Jeff Pieper (Alberta) [pieper@ucalgary.ca](mailto:pieper@ucalgary.ca)  
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Jing Sun (Ford) [jsun@ford.com](mailto:jsun@ford.com)  
Robert Van Til (Oakland Univ) [vantil@oakland.edu](mailto:vantil@oakland.edu)  
Tyrone Vincent (Colorado School of Mines) [tvincent@mines.edu](mailto:tvincent@mines.edu)

## 9. Email to Proposed Session Chairs and Co-Chairs

Email to: "Email address (column H)"

Re: "session ID (column A)" "session title (column B)"

Dear "title (column D)" "surname (column E)":

On behalf of the 2001 ACC Technical Program and Operating Committees, I am asking you to chair a session (detailed above) at the conference. Session Chairs/Co-Chairs are crucial to a smooth running of the conference program. The main responsibilities of session chairs are:

1. Attend the complimentary speakers' breakfast on the morning of the session. You can use this informal setting to meet with the speakers in your session.
2. Introduce the speaker during the session; the two chairs can decide on the format/order in which they would make introductions.
3. Keep the speakers on time-schedule. Since many of the attendees like to attend papers from several parallel sessions, it is important that each paper is presented during its allocated time slot so the attendees can plan their schedule ahead of time.
4. Fill in the session summary form that will be given to you during the speakers' breakfast. Completed forms need to be turned in to the conference registration area following the session. Please note that it is very important to return the completed session summary forms, as the ACC is trying to keep track of authors that do not present their work.

We have tried our best to assign you to the sessions in which you are also presenting a paper. There will be minor conflicts due to last minute adjustments to the Technical Program; we can resolve these as they are encountered. Note that the deadline for advance registration for the ACC is 15 May, and the ACC requires that all session chairs register for the conference at appropriate rates. The registration details can be found on the conference web site below.

For your convenience, we will be placing abstracts of all papers accepted for the Technical Program on the conference web site <http://acc2001.che.ufl.edu/> by 21 April so you can familiarize yourself with the contents of papers in your session.

If you do not wish to chair the session that I have assigned you, please email me at [bequette@rpi.edu](mailto:bequette@rpi.edu) as soon as possible, so I can find a suitable replacement for your session.

Once again, I thank you for your willingness to serve as a Session Chair and look forward to seeing you in Arlington at the ACC.

Sincerely,

B. Wayne Bequette  
Program Chair



## 10. Letter to Session Chairs and Co-Chairs

Dear Colleague:

On behalf of the 2001 ACC Technical Program Committee and the Organizing Committee, I would like to take this opportunity to thank you for accepting the invitation to chair a session at the conference. As you can imagine, Session Chairs/Co-Chairs are crucial to a smooth running of the Technical Program at the conference. Very briefly, the main responsibilities allocated to Session Chairs are enumerated below:

1. Attend the complimentary speakers' breakfast on the morning of the session you are chairing. You can use this informal setting to familiarize yourself with the speakers in your session.
2. Introduce the speaker during the session; the two chairs can decide on the format/order in which they would make introductions.
3. Keep the speakers on time-schedule. Since many of the attendees like to attend papers from several parallel sessions, it is important that each paper is presented during its allocated time slot so the attendees can plan their schedule ahead of time.
4. Fill in the session summary form that will be given to you during the speakers' breakfast. Completed forms need to be turned in to the conference registration area following the session. Please note that it is very important to return the complete session summary forms, as the AC is trying to keep track of authors that do not present their work, thereby causing interruption in the Technical Program.

We have tried our best to assign you to the sessions in which you are also presenting your paper (where applicable). Inevitably, there will be minor conflicts due to last minute adjustments to the Technical Program. I am confident that we can resolve them as they are encountered. Note that the deadline for advance registration for the ACC is April 16<sup>th</sup>; unlike some non-IEEE conferences, the ACC requires that all session chairs register for the conference at appropriate rates. The registration rates can be found on the conference web site listed below.

For your convenience, we will be placing abstracts of all papers accepted for the Technical Program on the conference web site <http://www.a2c2.org> by April 15<sup>th</sup> so you can familiarize yourself with the contents of papers in your session.

If, for some reason, your plans for attending the ACC change between now and the conference, please send me e-mail at [bequette@rpi.edu](mailto:bequette@rpi.edu) as soon as possible so I can find a suitable replacement for your session. My contact information appears to the left.

Once again, I thank you for your willingness to serve as a Session Chair and look forward to seeing you in Arlington at the ACC.

Sincerely,

B. Wayne Bequette  
Program Chair

## **11. Letter to Corresponding Author of Accepted Papers**

Dear Colleague:

It is my pleasure to inform you that the paper detailed at the bottom of this message, submitted by you for the 2001 American Control Conference (ACC) has been accepted for presentation at the conference. Please convey this information and my congratulations to your co-authors.

### **Important Information Regarding Presentations of Papers**

This year there will be both poster and oral presentation sessions. Nearly 20% of the papers will be presented in poster sessions. Papers were assigned to oral or poster sessions based on the Program Committee's assessment of which style of presentation was most suitable for the content of the contribution. The presentation format for your paper is indicated below.

Note that all papers will be published in the proceedings regardless of the presentation format. The camera-ready copy of the manuscripts is due on March 15, 2001 to the printer Omnipress. The detailed "Author Kit" with instructions and forms that need to be completed for your manuscript to appear in the official record, will be e-mailed to you separately. These instructions and forms may also be down-loaded from the ACC web site (<http://acc2001.che.ufl.edu/>).

In addition to the camera-ready manuscript, you also need to submit the abstract of your paper electronically. Abstracts of all accepted papers will be included in a Book of Abstracts, which will be included with your registration package at the ACC. The procedure for submission of abstract is explained in the Author Kit instructions. Please follow the steps carefully to ensure accuracy of the Book of Abstracts. If you have any questions concerning preparation of your manuscript which are not clear from the Author Kit instructions or the conference web site, please contact Dawn Tilbury, Publications Chair ([tilbury@umich.edu](mailto:tilbury@umich.edu)).

Acceptance of your paper is made with the understanding that you or one of your co-authors will attend the ACC to present the paper. If a paper is not presented during a session, it causes severe disruption to the session. To avoid such interruptions, I would greatly appreciate it if you could inform me and withdraw the paper at the earliest time in case you or a co-author cannot attend the conference to present the paper.

On behalf of the 2001 ACC Technical Program Committee and the Organizing Committee, I thank you for your contribution and look forward to seeing you in Arlington at the ACC.

Sincerely,

B. Wayne Bequette, Program Chair

## **12. Letter to Corresponding Author of Papers not Accepted**

Dear Colleague:

Based on the review of the papers submitted for the 2001 American Control Conference, I regret to inform you that your paper, identified on the enclosed sheet, has not been accepted for the conference program. Please inform your co-authors (if applicable) of this decision.

Due to tight timeline for conference reviewing, all decisions regarding acceptance/rejection of manuscripts are final; i.e., the authors do not have an opportunity to revise their manuscripts for resubmission. The reviewers' comments for your manuscript (if any) will be sent to you automatically.

The average quality of the papers submitted to 2001 ACC was exceptionally high and we expect the Technical Program to be of extremely high quality. In due course, the Technical Program will be linked to the 2001 ACC web page (<http://www.acc01.a2c2.org/>).

On behalf of the 2001 ACC Organizing Committee and Technical Program Committee, I would like to thank you for your contribution to the 2001 ACC. We hope you will have the opportunity to attend the ACC in Arlington.

Sincerely,

B. Wayne Bequette  
Program Chair

### 13. Best Student Paper Award – Nominees

Student	Advisor	MS#
Varigonda	Daoutidis	IEEE 1536
Yaghoobi & Hassouneh	Abed	IEEE 1503
Qian	Lin	SCS 1012
Krishnamarthy	Khorrami	IEEE 1630
Krishnamarthy	Khorrami	IEEE 1633
Wu	Jayasuriya	ASME 1032
Pan	Su	IEEE 1527
Rodrigues	How	IEEE 1366
Guo	Zhang	ASME 1072
El-Farra	Christofides	AIChE 1049
Tabuada	Pappas	INV 1904
Fathy	Ulsoy	ASE 1085
Padhi	Balakrishnan	AIAA 0123
Nourou	Bukshi	IEEE 1652
Lawton	Beard	IEEE 1305
Young	Beard	IEEE 1575
Sichitia	Bauer	IEEE 1422
Sichitia	Bauer	IEEE 1442
Ferrari	Stengel	AIAA 1055
Xin	Salapaka	IEEE 1211
Shkolnikov	Shtessel	AIAA 1030
Cartas	Ray	IEEE 1231
La-orpacharapan	Pau	ASME 1019
Lau	Pau	IEEE 1028
Chang	Lee	IEEE 1479
Almutain	Chow	IEEE 1107

## 14. Best Student Paper Award and Reviewer Letter

### 14.1 Best Student Paper Award Competition Evaluation Form

Reviewer's Name:                      «Title» «FirstName» «LastName»  
Affiliation:                              «Company»  
Telephone/Fax:                        «Tel»/«Fax»  
Email:                                    «Email»

Signature: \_\_\_\_\_

**Criteria for evaluation:** You may base your evaluation on:

1. Area (is the subject current or obscure, you be the judge)
2. Quality
  - a) Knowledge of and relation to the surrounding literature
  - b) Originality and degree of breakthrough
  - c) Impact on the field
3. Articulation/presentation of the ideas.

**Evaluation:**

Paper#	Poor		Average			Good		Excellent			
	1	2	3	4	5	6	7	8		9	10
	1	2	3	4	5	6	7	8		9	10
	1	2	3	4	5	6	7	8		9	10
	1	2	3	4	5	6	7	8		9	10
	1	2	3	4	5	6	7	8		9	10
	1	2	3	4	5	6	7	8		9	10
	1	2	3	4	5	6	7	8		9	10
	1	2	3	4	5	6	7	8		9	10
	1	2	3	4	5	6	7	8		9	10

Please report your evaluation by December 4, 2000.

Professor B. Wayne Bequette  
Chemical Engineering Department  
Rensselaer Polytechnic Institute  
110 8<sup>th</sup> St.  
Troy, NY 12180-3590  
Tel: (518) 276 6683  
Fax: (518) 276 4030  
Email: bequette@rpi.edu

## 14.2 Best Student Paper Award – Review Request Letter

«Title» «FirstName» «LastName»  
«JobTitle»  
«Company»  
«Address1»  
«Address2»  
«City», «State» «PostalCode»  
«Country»

November 8, 2000

RE: Program Committee Review of 2001 ACC Student Paper Contest Nominations

Dear «FirstName»:

Just when you thought you have your fair share of work for the 2001 ACC, here comes some more. In addition to external reviews, the nominees for Best Student Paper Contest also get reviewed internally (by the TPC). While the external review is for technical correctness, the internal review is more concerned with such issues as impact, timeliness, organization, etc. of the contribution. This review is typically less time consuming than the external review conducted by each society through their Society Review Chairs.

This year we received 26 nominations for the contest. I would like to receive three reviews from the TPC for each paper. To keep the load somewhat reasonable, I have tried to send 4-5 papers each for review to a select group of the Technical Program Committee. I have tried my best to assign the papers in your area of interest, but it is inevitable that you will receive one or two which are somewhat outside of your core interest, but I am confident that your broad outlook will enable you to judge the papers effectively.

Criteria and scoring scheme is stated on the enclosed form. It would be most helpful if you could return your evaluation to me by December 4, 2000.

Please verify that you have received the papers whose ID's are listed below. If you have any questions in this regard, do not hesitate to contact me.

Sincerely,

B. Wayne Bequette  
Program Chair

Encl. Papers numbered:

## 15. Letters to Best Student Paper Finalists

### 15.1 Selection Letter

«Title» «FirstName» «LastName»  
«Company»  
«Address1»  
«Address2»  
«City» «State» «PostalCode»  
«Country»

RE: 2001 ACC Student Paper Contest

Dear «Title» «LastName»:

I am happy to inform you that your student, \*\*\*NAME HERE\*\*\*, has been selected as one of six finalists for the Best Student Paper Award; please convey this information and my congratulations to our student. All finalists are presenting their papers on the first day of the 2001 ACC in Arlington, so that the panel members will have the opportunity to attend and evaluate each presentation. Please note that all finalists *must* present their papers to stay in contention.

To help prepare the panelists for the presentation, please send me *four copies* of the final version of the formatted, camera ready manuscript by **15 March 2001** (the same date that the manuscript is due to the printer). The winner of the contest will be decided based on the review process and presentation of the results at the conference. The announcement of the award winner will be made at the Awards Luncheon on Tuesday.

Note that the expenses of each of the six finalists to attend the ACC and present their papers are covered (with an upper limit of US\$600). Please take this into account in the travel plans.

Sincerely

B. Wayne Bequette  
Program Chair

### 15.2 Student Best Paper Award Travel Expense Reminder: Email, 20 June 01

TO: 6 Finalists for the Student Best Paper Award

We will cover your expenses for up to \$600. For each item (airline ticket, for example) greater than \$25, you will need a receipt.

You can either bring these to the conference, or send them to:

Asok Ray  
234 Mechanical Engineering  
Penn State University  
University Park, PA 16802  
Phone: (814) 864-6377  
Fax: (814) 863-4848  
Email: axr2@psu.edu

Thanks,

Wayne

B. Wayne Bequette, Professor  
Isermann Department of Chemical Engineering  
Rensselaer Polytechnic Institute  
110 Eighth St.  
Troy, NY 12180-3590  
(518)276-6683, Fax:(518)276-4030, bequette@rpi.edu  
<http://www.rpi.edu/~bequeb>

Sharon Sorell  
RPI-Chemical Engineering Department  
110 8th St.  
Troy, NY 12180-3590  
Phone: 518 276 6376  
Fax: 518 276 4030



## 16. Letter to Best Student Paper Non-Finalists

«Title» «FirstName» «LastName»  
«Company»  
«Address1»  
«Address2»  
«City» «State» «PostalCode»  
«Country»

RE: 2001 ACC Student Paper Contest

Dear «Title» «LastName»:

I regret to inform you that your student, NAME HERE, was not selected as one of the finalists for the Best Student Paper Award. Please note that all finalists are presenting their papers on the first day of the 2001 ACC in Arlington. The winner of the contest will be decided based on the review process and presentation of the results at the conference. The announcement of the award winner will be made at the Awards Luncheon on Tuesday.

The quality of the 26 nominations received for the competition this year was quite high. Each was evaluated for technical merit, timeliness and novelty by at least three members of the technical program committee. These evaluations, in addition to the reviews obtained through the ACC review process (via the Society Review Chairs) were used to select the six finalists. The names and manuscript titles of the finalists appear in the conference preliminary program.

On behalf of the 2001 ACC Program and Organizing Committees, I thank you for your contribution and look forward to seeing you in Arlington at the ACC.

Sincerely

B. Wayne Bequette  
Program Chair

17. Sample Award Certificate for Best Student Paper Finalist (a border and different fonts were used)

# **The American Automatic Control Council**

AIAA, AIChE, AISE, ASCE, ASME, IEEE, ISA & SCS

Recognizes

Whoever I. Tease

as a finalist for the Best Student Paper

with the paper entitled

*The most obscure topic on earth*

presented at the 2001 American Control Conference

Arlington, Virginia, USA

June 25-27, 2001



---

Bruce H. Krogh  
General Chair

---

B. Wayne Bequette  
Program Chair

18. Award Certificate for Best Student Paper Winner (with a border and different fonts)

# **The American Automatic Control Council**

AIAA, AIChE, AISE, ASCE, ASME, IEEE, ISA & SCS

Bestows the  
Best Student Paper Award to

**Whoever I. Tease**

with the paper entitled

*The most obscure topic on earth*

presented at the 2001 American Control Conference  
Arlington, Virginia, USA                      June 25-27, 2001



---

Bruce H. Krogh  
General Chair

---

B. Wayne Bequette  
Program Chair

## 19. Session Summary Form

Session No: \_\_\_\_\_

### 2001 American Control Conference Session Summary Form

*(To be completed by session chairs - one form per session)*

**Instructions:** Please fill in the session number (top right) and respond to the following questions. After your session, please drop off the completed form at the Registration Desk.

#### **NOTE: Best Presentation of Session Award**

**Item #3 must** be filled in. As session chair, it is your duty to select the best presentation in your session (you may do this yourself, or solicit opinions from others, such as your session co-chair). As in previous years a small memento will be given to one speaker in each session who made the **clearest, most interesting presentation** of his or her paper. The list of speakers selected for each session will be posted by the registration desk.

1. What was the approximate *average* attendance at your session? (circle one)

<20      20-40      40-60      60-80      80-100      >100

2. Tell us of any paper(s) that were not presented. Simply give the paper time-slot(s) as listed on the back of this form.

3. Please give the time-slot, title, and speaker for the Best Presentation in your session. (Refer to back of form and circle the winning presentation).

Time: \_\_\_\_\_ Speaker: \_\_\_\_\_

Title: \_\_\_\_\_

4. Were there any papers worthy of nomination for the O. Hugo Schuck Best Paper Award? Please consider the technical excellence and quality of both written and oral presentation.

5. On the reverse of this form, please list any observations or suggestions that you feel might benefit future ACCs.

6. Name(s) of session chair(s) completing this form (please print):

---

Session Chair

---

Session Co-Chair

*Thank you for helping make this a high--quality conference!*